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## Dosage Calculations and Safe Medication Administration 3.0 Case Studies: Leukopenia



A nurse is preparing to administer piperacillin with tazobactam 3.375 mg via intermittent IV bolus. Available is piperacillin with tazobactam 3.375 g in 0.9% NaCl 50 mL to infuse over 30 min. The nurse should set the IV pump to deliver how many mL/hr?

(Review the MAR, flow sheet, and medication label.)

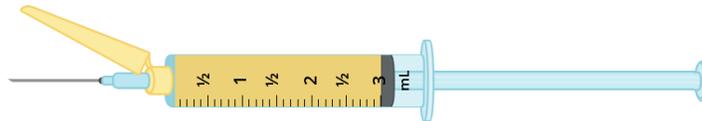


✓ 100



A nurse is calculating the dosage of ondansetron. How many milliliters should the nurse administer?

(Review the MAR, flow sheet, and medication label. Measure the correct dose of the medication by dragging the syringe. Then click "Submit.")

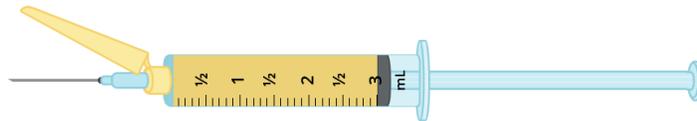
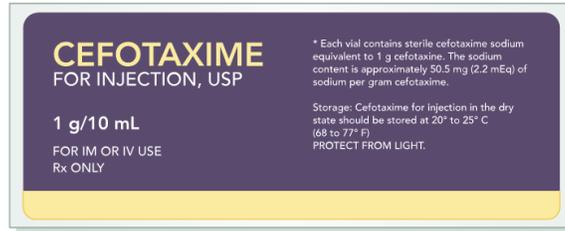


✓ 3



A nurse is calculating the dosage of cefotaxime 1 g via intermittent IV bolus. Available is cefotaxime 1 g in 5% dextrose in water (D<sub>5</sub>W) 10 mL to be administered over 3 min. How many mL/min should the nurse administer?

(Review the MAR, flow sheet, and medication label. Measure the correct dose of the medication by dragging the syringe. Then click "Submit.")



3



A nurse is converting a client's weight from pounds to kilograms. What is the client's weight in kilograms?

(Review the MAR and flow sheet. Round the answer to the nearest tenth.)



68.2



A nurse notes that a client's infusion of 0.9% sodium chloride (NaCl) is almost complete. The nurse recalculates the time the infusion will finish and should plan to hang the next bag of 0.9% NaCl at which of the following times?

(Review the MAR and flow sheet.)

A 0900

B 1000



C 1100

D 1200



A nurse is calculating the dosage of nystatin. How many milliliters should the nurse administer?

(Review the MAR, flow sheet, and medication label.)

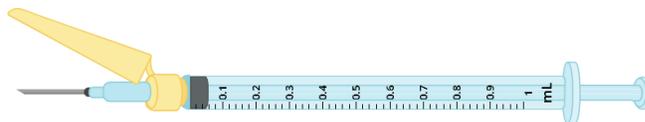


5



A nurse is calculating the dosage of diphenhydramine. How many milliliters should the nurse administer?

(Review the MAR and flow sheet. Round the answer to the nearest tenth. Measure the correct dose of the medication by dragging the syringe. Then click "Submit.")



0.5



A nurse is preparing to administer vancomycin 1 g via intermittent IV bolus. Available is vancomycin 1 g in 0.9% NaCl 250 mL. The nurse should set the IV pump to deliver how many mL/hr?

(Review the MAR and flow sheet. Round the answer to the nearest whole number.)



125



A nurse is calculating the dosage of acetaminophen. How many tablets should the nurse administer?

(Review the MAR, flow sheet, and medication label. Move the number of tablets the nurse should administer into the medication cup. Then click "Submit.")



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